AP Statistics: Ch. 25 CW NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_DATE:\_\_\_\_\_\_\_\_

Using the data/context in #15 on p. 604, complete the following:

1. Test to see if there is **at least** a 30 degree average difference between the two months. Use a = 0.05.
2. Complete an appropriate confidence interval. (and interpret)
3. Interpret your p-value from part (a)
4. Interpret Type II error in context
5. What does 90% confidence mean in this problem?
6. If I change my sample size to 40, what will happen to my Type I error, Type II error, and power? (increase/decrease/same)